

## IN THE CLAIMS

1. (original) A method of producing a multilevel electronic device comprising:

- 5 (a) providing a substrate of dielectric material having a set of surfaces;
- (b) machining into said substrate from a said surface, thereby creating a set of first indentations, at a first level;
- 10 (c) depositing conductive material into said first indentations to create a set of first conductive features;
- (d) substantially filling said first indentations with dielectric material;
- 15 (e) machining again into said substrate from a said surface, thereby creating a set of second indentations, at a second level; and
- (f) depositing conductive material into  
20 said second indentations to create a set of second conductive features.

2. (currently amended) The method of claim 1, wherein step [(f)] (e) further includes machining, in at  
25 least one place, to said first level, thereby together with step [(g)] (f) constructing at least one electrical connection between said first set of conductive features and said second set of conductive features.

30 3. (original) The method of claim 1, further comprising:

- (a) machining again into said substrate and machining a via that intersects both a said first conductive feature

and a said second conductive feature;  
and

- (b) depositing conductive material into  
said via to electrically connect said  
first conductive feature to said  
second conductive feature.

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10 4. (original) The method of claim 1, wherein  
said first set of indentations and said second set of  
indentations are both machined in from a single major  
surface.

15 5. (original) The method of claim 1, wherein  
said at least one major surface includes a first major  
surface and a second major surface and wherein said first  
set of indentations is machined in from said first major  
surface and said second set of indentations is machined  
in from said second major surface.

20 6. (original) The method of claim 1, wherein  
said machining of said second level indentations includes  
removal of some of said dielectric material.

25 7. (original) The method of claim 1, further  
including, prior to step (b), the step of coating said  
major surface of said substrate of dielectric material  
with process-removable material, so that when step (b) is  
performed said machining removes said process-removable  
material at said first indentations.

30 8. (original) The method of claim 1, wherein a  
conductive seed layer is deposited over said major  
surface by sputtering, but is removed everywhere but in

said indentations by exposing said major surface of said substrate to a removal process.

9. (original) The method of claim 1, wherein  
5 said step (d) includes filling said first indentations with liquid, curable material and then curing said liquid, curable material to form a filling of substantially solid, dielectric material.

10 10. (original) The method of claim 1, wherein said step (d) more specifically includes plasma depositing dielectric material into said first indentations.

15 11. (original) The method of claim 1, wherein said step (d) more specifically includes filling said first indentations with paralyne by way of sublimation.

20 12. (original) The method of claim 1, further including laminating said flexible multilevel electrical device to a second flexible electrical device, to form a new multilevel electrical device having an increased number of levels.

13. (original) In an electrical device work  
piece having a major horizontal top surface, a method for  
5 creating a vertical planar conductive feature, said  
method comprising:

- (a) machining through said major  
horizontal top surface, to create a  
trench;
- 10 (b) plating at least a portion of one side  
of said trench with conductive  
material, thereby creating a vertical  
planar conductive feature.

15 14. (original) The method of claim 13, wherein  
said step of plating includes sputtering conductive  
material onto at least one side of said trench by  
sputtering in a partially non-directional manner.

20 Claim 15 previously cancelled.